

WHAT IS CLAIMED IS:

1. A coupling structure for a flow control valve, the coupling structure comprising:
- 5 a fitting portion having a male thread that is formed on a peripheral surface of the flow control valve;
- a coupled member having a coupling hole to receive the flow control valve; and
- 10 a cylindrical elastic sealing member engaged with the coupling hole to seal the space between the flow control valve and the coupling hole, wherein the elastic sealing member has an inner surface defining a mounting hole in which the fitting portion is fitted, and a female thread is formed on the inner surface, the female thread being mated with the
- 15 male thread of the fitting portion.
2. The coupling structure according to claim 1, wherein the elastic sealing member and the coupled member hole each include a rotation restricting structure that holds
- 20 the elastic sealing member and prevents the elastic sealing member from rotating in the coupling hole when the male thread is mated with the female thread.
3. The coupling structure according to claim 1, wherein the elastic sealing member has a pressed portion formed on the inner surface defining the mounting hole, and the pressed portion is pressed by the fitting portion to radially expand the elastic sealing member when the fitting portion is fitted in the mounting hole.
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- 30 4. The coupling structure according to claim 3, wherein the elastic sealing member and the coupled member hole each include a rotation restricting structure that holds

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the elastic sealing member and prevents the elastic sealing member from rotating in the coupling hole when the male thread is mated with the female thread.

5           5.    The coupling structure according to claim 4, wherein the coupled member includes a front surface and a rear surface, the elastic sealing member being engaged with the coupled member from the front surface, and wherein the rotation restricting structure has a stopper socket, which is  
10 arranged adjacent to the coupling hole, and a stopper, which projects from the elastic sealing member, the stopper being received in the stopper socket.

15           6.    The coupling structure according to claim 5, wherein the flow control valve has a main body formed from synthetic resin, and the main body has a rotating portion for rotating the male thread and mating the male thread with the female thread.

20           7.    The coupling structure according to claim 6, wherein the flow control valve is a blowby gas returning apparatus flow control valve incorporated in an internal combustion engine.

25           8.    The coupling structure according to claim 7, wherein the main body has a hose connector for connecting a hose, and the rotating portion is arranged in the hose connector.

30           9.    The coupling structure according to claim 1, wherein the flow control valve has a main body formed from synthetic resin, and the main body has a rotating portion for rotating the male thread and mating the male thread with the

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a mounting hole for receiving the fitting body; and  
a pressed portion formed on a inner surface defining the  
mounting hole and pressed by the fitting body, wherein the  
pressed portion radially expands the elastic sealing member  
5 when pressed by the fitting body.

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